

Please type a plus sign (+) inside this box

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PTO/SB/01 (12-97)

Approved for use through 9/30/00.OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> <b>(37 CFR 1.63)</b>  <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)	Attorney Docket Number	39878-0030
	First Named Inventor	Shpantzer
	<b>COMPLETE IF KNOWN</b>	
	Application Number	10/669,130
	Filing Date	09/22/2003
	Group Art Unit	Not assigned
Examiner Name	Not assigned	

As a below named Inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**COHERENT OPTICAL DETECTOR AND COHERENT COMMUNICATION SYSTEM AND METHOD**

(Title of the Invention)

the specification of which

☐ is attached hereto  
OR

☒ was filed on (MM/DD/YYYY)

09/22/2003

as United States Application Number or PCT International

Application Number 10/669,130 and was amended on (MM/DD/YYYY) ☐ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(h) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto.
60/462,348	04/11/2003	

(Page 1 of 2)

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## DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of the application is not designated in the prior United States or PCT international application in the manner provided by the first paragraph of 31 U.S.C. 112. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
10/613,772	07/02/2003	
09/962,243	09/26/2001	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☒ Customer Number 25213 

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer  
Number Bar  
Code Label here

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

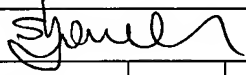
Direct all correspondence to: ☒ Customer Number 25213 OR ☐ Correspondence address below

Name					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))				Family Name or Surname			
Isaac				SHPANTZER			
Inventor's Signature						Date	30-oct-03
Residence: City	Bethesda	State	MD	Country	US	Citizenship	US
Post Office Address	8312 Rising Ridge						
Post Office Address							
City	Bethesda	State	MD	ZIP	20817	Country	US

☒ Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto:

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PTO/SB/02A (3-97)

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page <u>1</u> of <u>3</u>
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Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor											
Given Name (first and middle (if any))				Family Name or Surname											
Arkady				KAPLAN											
Inventor's Signature					Date		10/28/03								
Residence: City		East Brunswick		State		NJ		Country		US		Citizenship		IL	
Post Office Address		5 Lake Avenue, Apt. 10A													
Post Office Address															
City		East Brunswick		State		NJ		ZIP		08816		Country		US	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor											
Given Name (first and middle (if any))				Family Name or Surname											
Aviv				SALAMON											
Inventor's Signature					Date		10/28/03								
City		Washington		State		DC		Country		US		Citizenship		IL	
Post Office Address		1722 19 <sup>th</sup> Street NW, Apt. 803													
Post Office Address															
City		Washington		State		DC		ZIP		20009		Country		US	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor											
Given Name (first and middle (if any))				Family Name or Surname											
Yaakov				ACHIAM											
Inventor's Signature					Date		10/28/03								
City		Rockville		State		MD		Country		US		Citizenship		IL	
Post Office Address		301 Congressional Lane													
Post Office Address															
City		Rockville		State		MD		ZIP		20852		Country		US	

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page <u>2</u> of <u>3</u>
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Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname					
Jacob B.				KHURGIN					
Inventor's Signature					Date		Oct 28 2003		
Residence: City		Baltimore		State		MD		Country	
						US		Citizenship	
								US	
Post Office Address		7 Stablemere Court							
Post Office Address									
City		Baltimore		State		MD		ZIP	
						21209		Country	
								US	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname					
Michael				TSEYTLIN					
Inventor's Signature					Date		Oct 28 2003		
City		Bethesda		State		MD		Country	
						US		Citizenship	
								IL	
Post Office Address		5705 Radnor Court							
Post Office Address									
City		Bethesda		State		MD		ZIP	
						20817		Country	
								US	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname					
Pak Shing				CHO					
Inventor's Signature					Date		Oct. 28, 2003		
City		Gaithersburg		State		MD		Country	
						US		Citizenship	
								US	
Post Office Address		24 Spring Street							
Post Office Address									
City		Gaithersburg		State		MD		ZIP	
						20877		Country	
								US	

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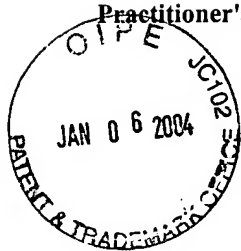
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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Suppl mental Sheet Page <u>2</u> of <u>3</u>
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Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname					
Arthur				GREENBLATT					
Inventor's Signature					Date		10/28/03		
Residence: City		Silver Spring		State		MD		Country	
						US		Citizenship	
								US	
Post Office Address		8912 Fairview Road							
Post Office Address									
City		Silver Spring		State		MD		ZIP	
						20910		Country	
								US	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname					
Christopher				KERR					
Inventor's Signature					Date		10/28/03		
City		Annapolis		State		MD		Country	
						US		Citizenship	
								US	
Post Office Address		28 Bristol Drive							
Post Office Address									
City		Annapolis		State		MD		ZIP	
						21401		Country	
								US	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname					
Geoffrey				HARSTON					
Inventor's Signature					Date		10/28/03		
City		Laurel		State		MD		Country	
						US		Citizenship	
								US	
Post Office Address		9155 Bourbon Street, Apt. M							
Post Office Address									
City		Laurel		State		MD		ZIP	
						20723		Country	
								US	

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**POWER OF ATTORNEY BY ASSIGNEE TO EXCLUSION OF INVENTOR  
UNDER 37 C.F.R. § 3.71 WITH REVOCATION OF PRIOR POWERS**

The undersigned ASSIGNEE of the entire interest in:

- ☐ U.S. Patent No.  
☒ U.S. application no. 10/669,130, filed on 09/22/2003

hereby appoints the practitioners at Customer Number 25213 as its attorneys and agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and hereby revokes all prior powers of attorney; said appointment to be to the exclusion of the inventors and the inventors' attorneys in accordance with the provisions of 37 C.F.R. §3.71.

The following evidentiary documents establish a chain of title from the original owner to the Assignee:

*(complete one of the following)*

- ☒ a copy of an Assignment attached hereto, which Assignment has been (or is herewith) forwarded to the Patent and Trademark Office for recording; or
- ☐ the Assignment recorded on \_\_\_\_ at reel \_\_\_\_, frames \_\_\_\_ - \_\_\_\_.

Pursuant to 37 C.F.R. § 3.73(b) the undersigned Assignee hereby states that evidentiary documents have been reviewed and hereby certifies that, to the best of ASSIGNEE's knowledge and belief, title is in the identified ASSIGNEE.

Direct all correspondence and telephone calls to:

Name	Paul Davis					
Address	Heller Ehrman White & McAuliffe LLP					
Address	275 Middlefield Road					
City	Menlo Park	State	CA	Zip	94025	Customer No.: 25213
Country	USA	Telephone	(650) 324-7000		Fax	(650) 324-0638

ASSIGNEE: CELIGHT, INC.

Name: 

Date: 10-30-2003

<b>ASSIGNMENT OF APPLICATION</b>	<b>Docket No 39878-0030</b>
----------------------------------	-----------------------------

Whereas, the undersigned:

Isaac Shpantzer Bethesda, MD	Arkady Kaplan Rockville, MD	Aviv Salamon Washington, D.C.	Yaakov Achiam Rockville, MD
Jacob B. Khurgin Baltimore, MD	Michael Tseytlin Bethesda, MD	Pak Shing Cho Gaithersburg, MD	Arthur Greenblatt Silver Spring, MD
Christopher Kerr Annapolis, MD	Geoffrey Harston Laurel, MD		

hereinafter termed "Inventors", have invented certain new and useful improvements in

**COHERENT OPTICAL DETECTOR AND COHERENT  
COMMUNICATION SYSTEM AND METHOD**

for which an application for United States Patent was filed on 09/22/2003, Application No. 10/669,130

WHEREAS, CeLight, Inc., a corporation having a place of business at 1220 Tech Road, Silver Spring, MD 20904, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and

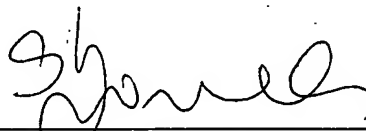
other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

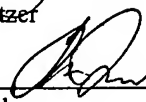
4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

Said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

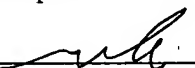
Date: 10-Oct-03

  
Isaac Shpantzer

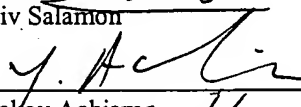
Date: 10/28/03

  
Arkady Kaplan

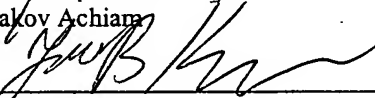
Date: 10/28/03

  
Aviv Salamon

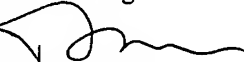
Date: 10/28/03

  
Yaakov Achiam

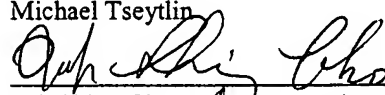
Date: Oct 29 '03

  
Jacob B. Khurgin

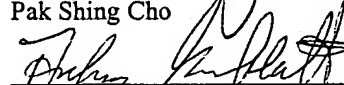
Date: Oct 28, 2003

  
Michael Tseytlin

Date: Oct. 28, 2003

  
Pak Shing Cho

Date: 10/28/03

  
Arthur Greenblatt

Date: 10/28/03

  
Christopher Kerr

Date: 10/28/03

  
Geoffrey Harston